

Wright State University

**CORE Scholar**

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BITs and PCs Newsletter

College of Engineering & Computer Science

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2-1-2001

## Wright State University College of Engineering and Computer Science Bits and PCs newsletter, Volume 17, Number 5, February 2001

Wright State University College of Engineering and Computer Science

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# BITS & PCs

## COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

February 2001

Wright State University Dayton, Ohio 45435

Vol. 17 No. 5

### Important Dates

- February 18-24  
National Engineers Week
- February 19  
CECS Open House for  
high school students,  
1:00 PM - 5:00 PM
- February 23  
Last day for freshmen  
to drop a class with a  
record of "W"
- February 24  
Campus Visitation Day,  
9:00 AM - Noon
- March 1  
Last day to apply for  
June graduation
- March 12  
Last day of Winter  
Quarter classes
- March 13-17  
Final Exam Week
- March 26  
First day of Spring  
Quarter classes
- April 13  
Last day to drop a  
class without a grade
- April 27  
Last day for all but  
freshmen to drop a  
class with a record  
of "W"

### National Engineers Week Festivities



The 2001 celebration of National Engineers Week will take place during the week of February 18–24, 2001. Be sure to mark your calendars now and plan to join in on all the activities.

National Engineers Week is celebrated annually by thousands of engineers, teachers, engineering students, and leaders in government and business. E-Week was founded in 1951 by the National Society of Professional Engineers and is celebrating its 50<sup>th</sup> anniversary this year.

The Department of Mechanical Engineering is hosting a Trebuchet Contest in conjunction with National Engineers Week on Friday, February 23, 2001, in the Student Union Atrium from 9:00 AM to 1:00 PM. Contestants must create a trebuchet, which is a medieval siege engine, and battle against other trebuchets in the competition. The contest is open to both high school and college students. If you are interested in competing in the contest or would like to volunteer some of your time to assist in the competition, please contact Dr. Joe Slater at (937) 775-5085 or via email at [jslater@cs.wright.edu](mailto:jslater@cs.wright.edu). To learn more about trebuchets or the competition, visit <http://www.engineering.wright.edu/TEAMS/TEAMSTrb.html> where you'll find contest criteria and links to other interesting trebuchet sites.

A proposed schedule of events is listed on page 2. Other club events may develop before E-Week, so keep an eye out for more details later. If you have any suggestions for new E-Week activities, please contact Jenny Garringer in 405 Russ at (937) 775-5004. Your interest and suggestions are greatly appreciated.

### Co-Op Recruiting Day: Big Success

The 2001 Co-Op Recruiting Day held in the Russ Center on January 25<sup>th</sup> was an enormous success. Employees from over 30 area companies were in attendance to recruit students for positions available during spring and summer quarters. Over 260 professionally-dressed, résumé-toting students attended the afternoon event. Jack Butler, Assistant Director of Career Services, was in charge of coordinating the companies attending the event. He has hopes of recruiting an even larger number of companies to attend future Co-Op Days.

Companies participating in the event included Adroit Systems, Airborne Express, A.O. Smith, Bass Inc., Circuit Center, Cooper Tools Apex, Copeland, Ethicon Endo-Surgery, Gasper Corporation, Greater Dayton IT Alliance, Heapy Engineering, Honda, International Truck and Engine, Lexis Nexis, MacAulay Brown, Motoman, NAIC, NCR, Parker Hannifin Corporation, Qualia Computing, Reynolds & Reynolds, SOCHE, Software Architects, Standard Register, SDRC, Speedway SuperAmerica, Systran Corporation, The Ohio Department of Transportation, and WPAFB.



The next Co-Op Recruiting Day will be held on Thursday, July 26<sup>th</sup> and employers will be seeking students for fall or winter quarter positions.

Visit us on the Web at <http://www.engineering.wright.edu>

## National Engineers Week Schedule of Events

Event	Date and Time	Location
Penny Wars*	All week	All Department Offices
CECS Open House	Monday, 2/19, 1:00–5:00 PM	Russ Center Atrium
Club Fair	Monday, 2/19, 2:00–4:00 PM	Russ Center Atrium
CO <sub>2</sub> Car Race	Tuesday, 2/20 at 2:30 PM	TBA
Gathering at the Railing (G.A.T.R.)	Wednesday, 2/21 at Noon	Russ Center Atrium
Nerd Fashion Show	Wednesday, 2/21 (right after G.A.T.R.)	Russ Center Atrium
Trebuchet Contest	Friday, 2/23, 9:00 AM–1:00 PM	Student Union Atrium
ASME Bowling Party at Beaver-Vu Bowl**	Friday, 2/23, 11:00 AM–1:00 PM, meet at 10:45 AM	Meet in Russ Atrium
High School Egg Drop	Friday, 2/23, 1:00 PM	Russ Center Atrium
NSBE High School Outreach	Friday, 2/23, Time TBA	TBA

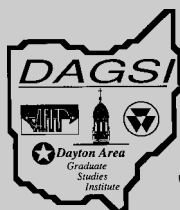
\*Proceeds will benefit the Isaac Weiss Memorial Scholarship.

\*\*Sign-up sheets will be available in the Department of Mechanical Engineering.

Cost involved: \$4.00 to bowl two games and the price of shoes is included.



Applications are now being accepted for



**DAGSI  
Competitive  
Scholarships**

for the 2001-2002 academic year.

Scholarships provide full tuition for both full-time and part-time study in the M.S. and Ph.D. programs. Full-tuition scholarships with an annual assistantship (\$15,000) are available for full-time Ph.D. students.

Applicants must be admitted to the WSU School of Graduate Studies in an engineering or computer science program of study by March 15, 2001, in order to be eligible for these scholarships.

Completed DAGSI Competitive Scholarship applications must be submitted by 5:00 PM on March 15, 2001, to Room 405 Russ Engineering Center.

Visit

[www.dagsi.org](http://www.dagsi.org)

to get a downloadable application form.

For more information, contact:

College of Engineering and Computer Science

Office of the Dean

405 Russ Engineering Center

Phone: (937) 775-5001

Email: [dean@engineering.wright.edu](mailto:dean@engineering.wright.edu)

The  
**Association of Iron and Steel Engineers**  
**Ohio Valley District Section**

presents

**YOUNG ENGINEERS' NIGHT**

**Tuesday, February 20, 2001**

Cincinnati Marriot North  
6189 Muhlhauser Road  
West Chester, Ohio 45069

Refreshments start at 6:15 PM  
followed by dinner at 7:00 PM.

Presentations from  
AK Steel and Matrix Technologies  
will begin at 7:30 PM.

WSU students and faculty  
are invited to attend free-of-charge.

Interested students and faculty should RSVP by  
Friday, February 16, 2001 to:

Dick Rathbun

405 Russ

(937) 775-5001

[drathbun@cs.wright.edu](mailto:drathbun@cs.wright.edu)

For additional information regarding AISE, visit their  
website at: <http://www.aise.org>

# SCHOLARSHIPS AND FELLOWSHIPS

**The Texas Space Grant Consortium and NASA** are accepting applications for *graduate fellowships*. The fellowships were established to encourage graduate study in the fields of space science and engineering. Applications from women and underrepresented students are encouraged. Each award of \$5,000 is good for one year and may be renewed for a maximum of three years. Applicants must be U.S. citizens and be registered for full-time study in a graduate program at a Consortium institution. Fellowship applications should be submitted by 5:00 PM on February 16, 2001. For more information and an application, visit <http://www.tsgc.utexas.edu/grants>.

**The Texas Space Grant Consortium and NASA** are also accepting applications for *undergraduate scholarships*. These scholarships were established for junior and senior-level students interested in space-related education and research. The \$1,000 scholarships stress: above-average academic performance, participation in space education and research projects, and exhibited leadership qualities. Participation by members of underrepresented groups is encouraged. Applicants must be U.S. citizens. Applications must be submitted by 5:00 PM on April 6, 2001. For more information and an application, visit <http://www.tsgc.utexas.edu/grants>.

**The Goddard Space Flight Center's Laboratory for High Energy Astrophysics (LHEA)** is offering a limited number of student research opportunities for the summer of 2001. These opportunities are designed to encourage an interest in Astronomy and Astrophysics research by enabling selected students to pursue specially tailored research projects in conjunction with scientific mentors within the Laboratory. Students must commit for the full ten-week period (June 11–August 17, 2001). Selected students will be compensated between the rate of \$8–\$10 per hour for forty hours per week. In addition, the Universities Space Research Association will reimburse travel expenses for participants needing to relocate to the Greenbelt, MD area. Local housing will be provided as needed.

Applications should be sent electronically to [ssro@gvsp.usra.edu](mailto:ssro@gvsp.usra.edu) using Word 97 format or PDF format and should include the following items:

- Name and Current Address
- Daytime and Evening Telephone Numbers
- Permanent Address (if different than current)
- Email Address
- Citizenship/Type of Visa
- Birth Date
- Education (please include the degree you are currently pursuing and expected completion date)
- Dates that your spring semester ends and fall semester starts
- Curriculum Vita or Resume
- Explain your interest in the program, your career goals, and relevant work experience. Provide a brief description of your research interests and any project that you are interested in pursuing at NASA. A project may or may not have been

developed in conjunction with a LHEA Scientist. Your description is to better help us understand your interests, background, and capabilities.

- Official transcripts and two letters of recommendation. These items must be mailed under separate cover to:

SSRO Program Coordinator  
Universities Space Research Association  
7501 Forbes Boulevard, Suite 206  
Seabrook, MD 20706

and must be received by SSRO no later than February 12, 2001.

**The Oak Ridge Institute for Science and Education (ORISE)** is recruiting *minority undergraduate and graduate engineering* students for internships in the Washington, DC metro area and in field throughout the country for the period of June 4, 2001 through August 10, 2001. Students will receive a stipend of \$375 to \$490 per week depending upon school classification. Interested students should submit a complete application and résumé by February 23, 2001. Applications are available in 405 Russ Engineering Center.

**The Professional Engineers in Government**, a practice division of the National Society of Professional Engineers, announces its 2001 Management Study Fellowship. This \$2,500 fellowship is awarded annually to an engineer pursuing advanced studies in the field of management. It is available to any Engineer Intern or licensed Professional Engineer from any discipline. Applicants who are not U.S. citizens may apply if they are current NSPE members. The application must be submitted to NSPE/PEG and be postmarked no later than March 15, 2001. For additional information and an application form, visit the NSPE web page at:

<http://www.nspe.org/awards/ab2-awfel.asp>

**The Wright State University School of Medicine** is offering a Summer Research Program for undergraduate and graduate students which takes place from June 10 – August 10, 2001. The purpose of the program is to stimulate the interest of *minority* students in a biomedical research career. Students participate in projects with School of Medicine faculty covering a wide spectrum of activities. The areas of focus include Cellular/Molecular Biology, Endocrinology/Hypertension, and Cardiovascular Epidemiology. The program involves participation in a research project, a seminar series, a journal club, career counseling and a research symposium where the students present their research findings. The students are provided with a stipend of \$1,224 per month, housing in WSU apartments, and are reimbursed for transportation costs. For more information, students can contact Ms. Andrea Blair, at (937) 775-2395 or via email at [andrea.blair@wright.edu](mailto:andrea.blair@wright.edu). Students can also visit the Department of Pharmacology and Toxicology's website at <http://www.med.wright.edu/streams/>. Applications can be submitted directly on the website or via mail.

## **ITRI Faculty-Graduate Student Seminar**

February 9, 2001

11:00 AM

145 Russ Engineering Center

### **Content-Based Retrieval in Video Databases**

by

**Dr. Wasfi Al-Khatib**

Wright State University  
Department of Computer  
Science and Engineering

### **ABSTRACT**

Multimedia databases have been the subject of extensive research for the last ten years. In particular, indexing and knowledge-based representation of semantics associated with video databases is a challenging task. This research focuses on addressing issues related to event modeling, query formulation, and query-processing algorithms for video data. The objective is to develop viable solutions for content-based retrieval of video data. We will briefly describe our proposed formal model that is based on Hierarchical Petri-Nets for building video database management systems. Then we will present in more detail our proposed techniques for processing video queries. We evaluate the performance of these techniques and present our results.

## ***College of Engineering and Computer Science***

### ***Open House***

**MONDAY, FEBRUARY 19, 2001**

**1:00 PM - 5:00 PM**

**RUSS ENGINEERING CENTER LOBBY**

held in conjunction with

**NATIONAL ENGINEERS WEEK**

**FEBRUARY 18-24, 2001**

- ✓ Learn about our engineering and computer science programs
- ✓ Tour our state-of-the-art facilities and the WSU campus
- ✓ Obtain information about admissions, financial aid, and cooperative education
- ✓ Receive a copy of our Employment Guarantee
- ✓ Hear a special presentation at 1 PM on "How to Choose a College"

For more information:

Phone: (937) 775-5001

Email: [dean@engineering.wright.edu](mailto:dean@engineering.wright.edu)

or visit us on the web at

<http://www.engineering.wright.edu>

### ***BITs & PCs***

College of Engineering and Computer Science  
**Wright State University**



#### **Dean**

James E. Brandeberry, Ph.D., P.E.

#### **Editor**

Jenny Garringer

*BITs & PCs* is a monthly newsletter published by the College of Engineering and Computer Science to inform students about activities, news, opportunities and changes occurring in the College. It reports on the achievements of faculty and students; changes in organization, policy and curriculum; scholarship and employment opportunities; and engineering and computer science student club activities.

The current issue of *BITs & PCs* is available on the Web at <http://www.cs.wright.edu/bitsandpcs/>. Copies are also available in the College office, any Department office, literature racks in the Russ Center Atrium, Russ Center Study Lounge, or the Student Club Room.

The next issue of *BITs & PCs* will be published the week of March 5, 2001. To submit items for this issue, call the College of Engineering and Computer Science at (937) 775-5001, or send email to [jgarringer@cs.wright.edu](mailto:jgarringer@cs.wright.edu) by February 19, 2001. The College of Engineering and Computer Science reserves the right to edit all material for publication.

**SOCHE Student Research Program**

SOCHE has several positions for undergraduate and graduate students available in the Materials Lab at WPAFB. They offer flexible work schedules, career related work experience in their state-of-the-art labs and competitive wages (Soph. \$10.40/hr; Jr. \$11.65/hr; Sr. \$13.00/hr; Grad. \$15.90/hr). Applicants must be degree seeking students in good standing with U.S. citizenship. Positions available include the following:

**Project No. 289 - Nondestructive Evaluation Support**

Major: Physics, Electrical Engineering, Comp. Science  
Description: The student will need to learn existing inspection techniques, acquire data with them, and become familiar with what constitutes defects signals. It is likely that C++ algorithms will have to be written to convert data from one format to another and to analyze the data.

**Project No. TBA - Development of Discontinuously Reinforced Ti Alloys**

Major: Materials Science

Description: The work involved with this project shall include: preparation of samples; mechanical characterization of development alloys; preparation of metallographic samples; optical microscopy; scanning electron microscopy; X-ray diffraction and transmission electron microscopy. Analysis of the data collected will be performed.

**Project No. 199B - High Cycle Fatigue of Titanium and Nickel Base Superalloys**

Major: Mechanical Engineering

Description: Experiments will be conducted on titanium and polycrystalline nickel base superalloys under High Cycle Fatigue (HCF) at different stress ratios to determine the crack initiation and propagation properties. Data will be collected and analyzed to determine stress states and criteria for crack initiation and extension. Finite element modeling of test geometries will be conducted.

**Project No. 212B - Formulation, Processing, and Characterization of Aircraft Coatings**

Major: Chemistry, Chem. Engineering, Materials Science

Description: The work required in this project involves hands-on, in-house research of advance coating formulations and testing. This includes the formulation of advance primers and topcoats through the use of novel and commercial resins, hardeners, pigments, and additives. Characterization of the materials would include adhesion testing, gloss testing, scratch testing, spectroscopic methods and viscosity determinations.

**Project No. 248B - Analysis of Stress and Strain Behavior of Ceramic Matrix Composites**

Major: Mechanical Engineering, Materials Science

Description: A round robin was performed in which nine laboratories conducted room temperature tension tests on a Nicalon fiber reinforced Silicon-Nitro-Carbide ceramic matrix composite. Each laboratory conducted ten tests, and the stress versus strain traces were provided electronically to AFRL/MLLN. Draft Test Standards from ASTM will be used. Work will require extensive use of computers, with emphasis of spreadsheets, macros, and statistical methods.

**Project No. 253 - Characterization of Mechanical Behavior of Advanced Materials**

Major: Materials Science, Mechanical Engineering

Description: The focus of this research is to develop the

life prediction methodology of advanced materials, such as titanium alloys, ceramics, matrix and metal matrix composites including investigation of damage mechanisms under various mechanical and thermal loads, as well as to understand the fretting fatigue and related cracking issues of high temperature titanium alloys when subjected to high cycle fatigues using experiments and mathematical model techniques.

**Project No. 254 - Bi-directional Reflectance Distribution Function Measurement System**

Major: Electrical Engineering, Physics

Description: Investigate the bi-directional reflectance distribution function (BRDF) of several different materials, including those used in land and space-based vehicles. The student will design the experiments, integrate test equipment, perform the experiments, analyze the test data, and conduct analysis based on the experiments. The student should have knowledge in the following areas: LabView, GPIB Programming, Matlab, optics, and radiometry.

**Project No. 259 - Finite Element Material Fatigue Failure Predictions Under Turbine Engine Operating Condition**

Major: Aeronautical/Mechanical Engineering, Comp. Sci.

Description: Assist in the analysis of various plate configurations acted upon by forcing functions during fatigue failure. This analysis will be carried out making use of an in-house finite element vibration code and the results will be compared with ABAQUS. The major goal is to develop a novel vibration-based method for assessing materials under fatigue loading in a turbine blade environment.

**Project No. 263 - High Temp. Superconducting Wires for Power Generation: Pulsed Laser Deposition Plume Dynamics**

Major: Electrical Engineering, Mat. Science, Physics

Description: The student would assist in one of two major research projects that are being undertaken: (1) develop advanced optical diagnostics for process monitoring of YBCO deposition and (2) investigate plume dynamics and collisional kinetics to develop a better understanding of the gas phase mechanisms and film growth.

**Project No. 273 - Characterization of Friction Stir Welded Materials**

Major: Materials Science, Mechanical Engineering

Description: Friction stir welded aluminum based materials and titanium alloys will be analyzed for microstructure using optical and scanning electron microscopy. Heat treatments and microhardness measurements will be performed in the weld zones and compared to the base material to obtain relationship between microstructure and strength of the material.

**Project No. 283 - HCF and Near-Threshold Crack Growth Behavior of Turbine Engine Materials**

Major: Mechanical Engineering, Materials Science

Description: Experiments will be conducted on titanium and single crystal nickel base superalloys under HCF and mixed-mode loading utilizing a wide range of loading configurations. Data will be collected and analyzed to determine stress states and criteria for crack initiation and extension.

Interested students can visit the SOCHE website at: <http://www.soche.org> to get an application. Applications must be submitted with a resume and transcript. For more information, call (937) 910-5808.

# FACULTY

## A C T S

**Maher Amer, Ph.D., ME**, has published a paper (with L. Schadler and H. Wagner) entitled "Residual Compression Stress Profile in High Modulus Carbon Fiber Embedded in Isotactic Polypropylene by Micro-Raman Spectroscopy," which appeared in *Applied Composite Materials*, Vol. 7, 209-217, 2000. Dr. Amer was recently added to the Lexington Who's Who List for his work in micro-Raman spectroscopy and solid mechanics. In addition, Dr. Amer has been invited by the American Ceramic Society to give a lecture reviewing his micro-Raman spectroscopy work in the field of composites and thin film mechanics during their annual meeting in Indianapolis in April 2001.

**Abdul Awwal, Ph.D., CSE**, has received additional funding in the amount of \$9,574 from Oak Ridge National Laboratory for his proposal entitled "Fast Opto-Electronic Floating Point Multiplication."

**Oscar Garcia, Ph.D., CSE**, has received funding in the amount of \$30,000 from the Ohio Supercomputer Center for his proposal entitled "Summer Institute for Advanced Computation 2000."

**Ardeshir Goshtasby, Ph.D., CSE**, has received additional funding in the amount of \$60,000 from Kettering Medical Center for his proposal entitled "Nonlinear Brain Image Registration."

**Ramana Grandhi, Ph.D., ME**, has received additional funding in the amount of \$40,000 from the Department of Defense, the Air Force, and the Air Force Research Laboratory for his proposal entitled "Object-Oriented Multidisciplinary Design."

**James Menart, Ph.D., ME**, has received funding from the SelectTech Services Corporation in the amount of \$20,274 for his proposal entitled "Plasma Transport Property Measurement for Mach 6 Wind Tunnel."

**T. K. Prasad, Ph.D., CSE**, has received funding from Cohesia Corporation in the amount of \$75,000 for his proposal entitled "Computer-Assisted Document Interpretation Tools."

**Scott Thomas, Ph.D., ME**, has received additional funding in the amount of \$35,000 from the Department of Defense, the Air Force, and the Air Force Research Laboratory for his proposal entitled "Aircraft Mechanical/Thermal Technology Research."

**Mitch Wolff, Ph.D., ME**, was one of 127 AIAA members promoted to the rank of Associate Fellow in AIAA, joining Dr. Ramana Grandhi as the only WSU Associate Fellows. Dr. Wolff attended the Associate Fellows Awards dinner at the 39<sup>th</sup> AIAA Aerospace Sciences Meeting in Reno, Nevada on January 8, 2001. In addition, he was the session chair of the Jet Flows II sessions on January 11, 2001.

***Are you looking for a co-op or internship?***

***Are you looking for a full-time position after graduation?***

**If the answer is YES, then visit the**

***NEW***

**Career Services Display Case**

Engineering and computer science students can now find employment opportunities listed in the Career Services Display Case, which is located on the 1<sup>st</sup> floor of the Russ Engineering Center across from the Student Study Lounge. For more information, contact Jack Butler in Career Services at (937) 775-2556 or via email at [jack.butler@wright.edu](mailto:jack.butler@wright.edu).

**Check it out!!**





# Fall 2000 Dean's List



## BIOMEDICAL ENGINEERING

Joyce Bevington	Highest Honors
Amy Bierce	Highest Honors
Joseph Blake	Highest Honors
Marian Dickey	Highest Honors
Sharon Dillhoff	High Honors
Rachel Doyle	Honors
Douglas Fisher	Highest Honors
Adam Fournier	Highest Honors
Christy Harm	Honors
Andrea Horstman	High Honors
Timothy Hudson	High Honors
Erica Johnson	Honors
Ryan Justice	Highest Honors
Michael Kahelin	High Honors
Maria Kahle	Highest Honors
Brian Kandell	High Honors
Tiffany Kelley	Highest Honors
Harvey Lewis	Highest Honors
Adam Renner	High Honors
Matthew Roberts	Highest Honors
Ruzbeh Shariff	High Honors
Erin Tewksbury	Highest Honors
Jenna Warman	High Honors
Kristina Weaver	High Honors
Beth Wirick	Honors
Catherine Zelnio	Highest Honors

## COMPUTER ENGINEERING

Paul Anderson	Highest Honors
Chad Apple	Highest Honors
William Archer	High Honors
Edmund Cordray	Highest Honors
Bryan Crader	Honors
Kevin Daniel	Honors
Jason Gilder	High Honors
Eric Hamilton	High Honors
Tamanna Husain	High Honors
Kaiser Hussain	Honors
George Kehias	High Honors
Mathias Kohnen	Highest Honors
Patrick McClure	Highest Honors
James McKinney	Highest Honors
Justin Moore	Highest Honors
Robin Murphy	High Honors
Michael Peterson	Highest Honors
Gregory Stall	Honors
Kip Streithorst	Highest Honors
Matthew Verock	Honors
Jason Wright	Highest Honors

## COMPUTER SCIENCE

Gaurav Bedi	Honors
Brian Benning	Honors
Lisa Bowman	Honors
Rachel Dalton	Highest Honors
Jacob Diemer	High Honors
William Ettenne	Highest Honors
Matthew Farney	High Honors
Lindsay Ferguson	High Honors
Stephen Finkelstein	High Honors
Amir Fligler	Highest Honors
Alan Frazier	Highest Honors
Daniel Graham	Honors
David Green	Honors
Rodney Hepfner	Honors
David Johnson	Highest Honors
David Light	Highest Honors

Christina Price	High Honors
Joshua Rice	High Honors
Dennis Williams	Highest Honors
Joshua Williams	Honors

## ELECTRICAL ENGINEERING

Michael Bistline	High Honors
Jerry Burns	Honors
Casey Canan	Highest Honors
Dale Cull	Highest Honors
Ben Douglas	Honors
Matthew Floyd	Highest Honors
Robert Gillen	High Honors
Boris Holowko	Highest Honors
Michael Hood	Honors
Julie Jackson	Highest Honors
Eugene Johnson III	High Honors
Jason Knapp	Highest Honors
Justin Laux	Honors
Ya Li	Honors
Jason McCullough	High Honors
Lee Patton	Honors
Zachary Riepenhoff	Highest Honors
Samuel Sink	High Honors
Gregory Zelinski	Highest Honors

## HUMAN FACTORS ENGINEERING

Sara Johnson	Honors
Jennifer Stowe	High Honors
Kelly Treat	High Honors

## INDUSTRIAL AND SYSTEMS ENGINEERING

Rami Arafat	Honors
Bianca Brown	High Honors
Amanda Campbell	Highest Honors
Elizabeth Chadwell	Highest Honors
Renecia Joseph	High Honors
Emily Kempfer	High Honors
Christina Snyder	High Honors

## MATERIALS SCIENCE AND ENGINEERING

Gary Barr	Honors
Lisa Douglas	High Honors
Sean Gleeson	Honors
Joshua James	Highest Honors
Joseph Kell	Highest Honors
Jacob Lawson	Highest Honors
Robert Reuter	Honors
Robert Smith	Honors
John Welter	High Honors

## MECHANICAL ENGINEERING

Erin Bernard	Honors
Ovidio Bocanegra	High Honors
Jenny Broering	Highest Honors
Jeremy Buxton	High Honors
Joseph Cyrus	High Honors
Mary Fowler	Highest Honors
Eric Gasser	Honors
David Gerschutz	Highest Honors
Sean Henderson	High Honors
Timothy Hutton	High Honors
Brian Koesters	High Honors
Andrew Kurpik	Honors

Jeremy Ling	High Honors
Michael Maddux	High Honors
Mark McIntire	Highest Honors
Travis Michalak	Highest Honors
Edward Morris	Highest Honors
Zachary Osborn	Honors
Gregory Palm	High Honors
Aaron Powell	Highest Honors
Vincent Prinzo	High Honors
Stephanie Puterbaugh	Highest Honors
Jason Reber	Honors
Shawn Riley	Honors
Eric Roush	Highest Honors
Jason Ruge	High Honors
Brian Runyon	Honors
Oleg Shiryayev	Highest Honors
Joshua Szarek	High Honors
Lawrence Thomas	High Honors
Shawn Uhlenhake	High Honors
Gregory Updike	High Honors
Ryan Wagner	High Honors
Lindsay Walthall	High Honors
Patrick Wenning	Highest Honors

## PRE-BIOMEDICAL ENGINEERING

Anthony Sabatini	Highest Honors
Amanda Whetstone	Highest Honors

## PRE-COMPUTER ENGINEERING

Roberta Borokowski	Honors
Shannon Henry	Highest Honors
Linda Moore	Highest Honors
Jeremy Natale	High Honors
Brian Potchik	High Honors
Christopher Sielski	Highest Honors
Jason Ward	Honors
Kim-Ying Wong	Honors

## PRE-COMPUTER SCIENCE

James Arnold	High Honors
Robert Bever	Highest Honors
Thomas Boehnlein	High Honors
Eric Brenner	Honors
Angela Fry	High Honors
Robert Gaulden	Honors
Joseph Kirby	Highest Honors
Alexander Lux	High Honors
Nathaniel Ormbrek	High Honors
Thomas Patterson	Honors
Krista Poll	Highest Honors
John Tobe	High Honors
Jeffrey Vondruska	Honors

## PRE-ELECTRICAL ENGINEERING

Kristen Anderson	High Honors
Navid Baraty	High Honors
Matthew Casto	Highest Honors
Benjamin Denlinger	High Honors
Eric Elchert	High Honors
Stephen Felix	Highest Honors
Jacob Plasters	Highest Honors
Simon Tritschler	High Honors
Daniel Wells	Highest Honors

## PRE-ENGINEERING PHYSICS

Dean Brown	Highest Honors
Weston Earick	Honors
Andrea Thompson	Honors

## PRE-HUMAN FACTORS ENGINEERING

Jeanica William	Honors
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## PRE-MECHANICAL ENGINEERING

Andrew Fleming	High Honors
----------------	-------------

## UNIVERSITY DIVISION

Chaitanya Bandlamudi	High Honors
Todd Benanzer	High Honors
Kyle Bledsoe	Highest Honors
Justin Bohrer	Highest Honors
Peter Buxa	High Honors
Mark Chaplin	Honors
William Day, III	Honors
Lucas Deborde	High Honors
Jessica Fox	Honors
Brendhan Goss	Highest Honors
Elizabeth Gumbert	Honors
Allen Hena	Honors
Joan Henley	High Honors
Dallas Holbrook	Honors
Thomas Howell	Honors
Thelia Jackson	Highest Honors
Andrew Kondrath	High Honors
Jason Kremer	High Honors
Carmelo Lamancusa	High Honors
Daniel Lemaster	Highest Honors
Sylvere Mbarusha	Honors
Joseph McDonald	High Honors
Paul McDowell	High Honors
Ryan McGinnis	High Honors
Luke McKellar	High Honors
Adam Mercer	Honors
Scott Muhlenkamp	Honors
Herbert Mullens	Highest Honors
Faridal Mutalib	Highest Honors
Ghesu Ndefru	Highest Honors
Jeremy Nelson	Highest Honors
Trunali Patel	Highest Honors
Naina Pothini	High Honors
Jason Royse	Honors
Christina Schrider	Honors
Kenneth Selz	High Honors
Kristen Shiverdecker	Honors
Adam Sorna	Honors
Hetal Thakkar	Highest Honors
Laurie Thompson	High Honors
Steven Thompson	Honors
Cory Trenkamp	Highest Honors
Harshit Varia	Highest Honors
Michael Varney	Honors
James Weichey	Highest Honors
Anthony Wentzel	High Honors
Jerrald Willis	Honors



## Career Services' On-Campus Interview Schedule for Winter Quarter

### **Fifth Third Bank**

#### *Systems Analyst*

Recruiting Interview Date: 2/13/01

Systems Analysts work in a team environment where primary responsibilities are to design, upgrade and maintain the technical systems used by both Fifth Third Bank and MMPS. We perform both online and batch application programming using primarily COBOL, Assembler, and C++ languages in an IBM parallel processing environment as well as PC Programming in Visual C++ and Java.

### **Parker Hannifin Corp.**

#### *Engineering Co-op*

Recruiting Interview Date: 2/13/01

Location: Columbus, Ohio

The student will work with product and project engineers in the Product Engineering department of the Tube Fittings Division of Parker Hannifin Corp. TFD designs, manufactures and markets high-pressure hydraulic fittings for the industrial market.

### **Medical Mutual of Ohio**

#### *Programmer Analyst*

Recruiting Interview Date: 2/22/01

Location: Cleveland, Ohio

We have entry-level, application programming positions open which emphasize mainframe COBOL. We provide an extensive twelve-week training program that includes mainframe skills, IS procedures, and information about Medical Mutual and the Insurance industry. Programmers are given assignments to develop and modify application programs, determine the impact of requested changes on existing systems, and help develop and install new systems.

### **Siemens Energy & Automation Motion Control Systems**

#### *Computer Engineers – Full-time and Interns*

Recruiting Interview Date: 2/26/01

Location: Lebanon, Ohio

### **IET, Inc.**

#### *Industrial Engineer*

Recruiting Interview Date: 2/27/01

Location: Eastern United States (Offices in Middletown and Toledo, OH; Grand Rapids, MI; Amherst, New York and High Point, North Carolina)

We provide consulting services for a great variety of manufacturing industries and perform a wide variety of traditional or classical industrial engineering duties. Some of them include time studies, motion studies, delay studies, facility and workstation layouts, cost analysis, and many others.

### **Software Architects, Inc.**

#### *Technology Consultant*

Recruiting Interview Date: 2/27/01

Location: Cincinnati, Columbus, Cleveland, Dayton, OH

Our consultants enjoy working on projects in one of our practice areas, using a variety of technologies such as Visual Basic, PowerBuilder, C, C++, Visual Interdev, Active Server Pages, SQL Server, Java, ActiveX, Perl, and HTML. Enjoy a supportive environment where your abilities are recognized and your efforts make a difference.

**NOTE:** On-Campus Interviews are scheduled via *The Wright Search*, Career Services web-based program. To have access to *The Wright Search*, students and alumni must attend an orientation at Career Services. Orientations are held every Monday at 10:00 AM, Tuesday at 5:30 PM, Wednesday at Noon, and Thursday at 3:00 PM in E334 Student Union. Reservations are not required to attend an orientation.

Office of the Dean

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College of Engineering and Computer Science

